

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO 660088.433C1	APPLICATION NO. 09/709,785	
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANTS Anne N. Murphy et al.	RECEIVED	
<i>FEB 13 2001</i> 				FILING DATE November 3, 2000	GROUP ART UNIT 1645	
U.S. PATENT DOCUMENTS 						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AC AA	5,447,852	09/05/95	Friedman et al.	435	69.7	
AB	5,523,227	06/04/96	Bram et al.	435	240.2	
AC	5,780,235	07/14/98	Bandman et al.	435	6	
AD	5,968,802	10/19/99	Wang et al.	435	233	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO
AD	WO 98/06737	02/19/98	WIPO			
AE	WO 98/19714	05/14/98	WIPO			
AF	WO 99/07845	02/18/99	WIPO			
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
AG	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <i>Science</i> 252:1651-1656, 1991.					
AH	Allgood and Eastman, "Chimeric Receptors as Gene Switches," <i>Current Opinion in Biotechnology</i> 8:474-479, 1997.					
AI	Aquila et al., "Complete Amino Acid Sequence of the ADP/ATP Carrier from Beef Heart Mitochondria," <i>Hoppe-Seyler's Z. Physiol. Chem.</i> 363:345-349, 1982.					
AJ	Battini et al., "Molecular Cloning of a cDNA for a Human ADP/ATP Carrier Which is Growth-Regulated," <i>The J. of Biological Chemistry</i> 262(9):4355-4359, 1987.					
AK	Bergsma et al., "The Cyclophilin Multigene Family of Peptidyl-Prolyl Isomerasases," <i>The J. of Biological Chemistry</i> 266(34):23204-23214, 1991.					
AL	Bernardi et al., "Recent Progress on Regulation of the Mitochondrial Permeability Transition Pore; a Cyclosporin-Sensitive Pore in the Inner Mitochondrial Membrane," <i>J. of Bioenergetics and Biomembranes</i> 26(5):509-517, 1994.					
AM	Brunelli and Pall, "A Series of Yeast Shuttle Vectors for Expression of cDNAs and Other DNA Sequences," <i>Yeast</i> 9:1299-1309, 1993					
AN	Cacalano et al., "Evidence for a Functional Receptor for Cyclosporin A on the Surface of Lymphocytes," <i>Proc. Natl. Acad. Sci. USA</i> 89:4353-4357, 1992.					
AO	Carra and Schleif, "Variation of Half-Site Organization and DNA Looping by AraC Protein," <i>The EMBO J.</i> 12(1):35-44, 1993.					
EXAMINER <i>Anne N. Murphy</i>	<i>Armen Kr. Chakrabarti</i>			DATE CONSIDERED	<i>1/9/02</i>	
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*EXAMINER INITIAL	DOCUMENT NUMBER	PRIVATE & TRADEMARK	NAME	CLASS	SUBCLASS	TECH CENTER FILING DATE IF APPROPRIATE
BA						
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO
BB						
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
Ae	BC	Costantini et al., "On the Effects of Paraquat on Isolated Mitochondria. Evidence that Paraquat Causes Opening of the Cyclosporin A-Sensitive Permeability Transition Pore Synergistically with Nitric Oxide," <i>Toxicology</i> 99:77-88, 1995.				
	BD	Cozens et al., "DNA Sequences of Two Expressed Nuclear Genes for Human Mitochondrial ADP/ATP Translocase," <i>J. Mol. Biol.</i> 206:261-280, 1989				
	BE	Crompton et al., "Cyclophilin-D Binds Strongly to Complexes of the Voltage-Dependent Anion Channel and the Adenine Nucleotide Translocase to form the Permeability Transition Pore," <i>Eur. J. Biochem.</i> 258:729-735, 1998.				
	BF	Cruz-Orive and Weibel, "Recent Stereological Methods for Cell Biology: a Brief Survey," <i>Am. J. Physiol.</i> 258:L148-L156, 1990.				
	BG	Ernster and Schatz, "Mitochondria: A Historical Review," <i>J. Cell. Biol.</i> 91(3):227s-255s, 1981.				
	BH	Fiore et al., "The Mitochondrial ADP/ATP Carrier: Structural, Physiological and Pathological Aspects," <i>Biochimie</i> 80:137-150, 1998				
	BI	Fischer and Schmid, "The Mechanism of Protein Folding. Implications of in Vitro Refolding Models for de Novo Protein Folding and Translocation in the Cell," <i>Biochemistry</i> 29(9):2205-2212, 1990.				
	BJ	Franke and Luban, "Cyclophilin and GAG in HIV-1 Replication and Pathogenesis," <i>Advances in Experimental Medicine and Biology</i> 374:217-228, 1995.				
	BK	Galat, "Peptidylproline Cis-Trans-Isomerasers: Immunophilins," <i>Eur. J. Biochem.</i> 216:689-707, 1993.				
	BL	GenBank Acc. No. AA490268, June 25, 1997.				
↓	BM	GenBank Acc. No. AA874983, March 20, 1998.				
Ae	BN	GenBank Acc. No. AA955975, May 7, 1998.				
EXAMINER	<i>Anne N. Murphy Chakrabarti</i>			DATE CONSIDERED	<i>1/9/02</i>	
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Ae	CC	Genbank Acc. No. AAA58434, December 31, 1994.
	CD	GenBank Acc. No. AAB08453, September 18, 1996.
	CE	GenBank Acc. No. AF020338, September 24, 1997.
	CF	GenBank Acc. No. AF039571, February 2, 1999.
	CG	GenBank Acc. No. AF178950, October 20, 1999.
	CH	GenBank Acc. No. AF178951, October 20, 1999.
	CI	GenBank Acc. No. AF178952, October 20, 1999.
	CJ	GenBank Acc. No. AI668824, May 14, 1999.
	CK	GenBank Acc. No. AI875905, July 21, 1999.
	CL	GenBank Acc. No. AI892042, July 27, 1999.
	CM	GenBank Acc. No. L06132, January 14, 1995.
	CN	GenBank Acc. No. L06328, January 14, 1995.
	CO	GenBank Acc. No. L21950, May 20, 1994.
	CP	GenBank Acc. No. L21951, May 20, 1994.
	CQ	GenBank Acc. No. M34907, April 27, 1993.
	CR	GenBank Acc. No. M36035, December 20, 1993.
	CS	GenBank Acc. No. M80254, December 31, 1994.
Ae	CT	GenBank Acc. No. N86710, April 1, 1996.

EXAMINER

Anne N. Chakrabarty

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1/9/02

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	DC	GenBank Acc. No. NM_003374, November 1, 2000.
	DD	GenBank Acc. No. NM_003375, November 1, 2000.
	DE	GenBank Acc. No. NM_004758, November 1, 2000.
	DF	GenBank Acc. No. NM_005038, November 1, 2000.
	DG	GenBank Acc. No. NM_005662, November 1, 2000.
	DH	GenBank Acc. No. S75494, April 5, 1999.
	DI	GenBank Acc. No. S75651, July 27, 1995.
	DJ	GenBank Acc. No. U04335, November 8, 1994.
	DK	GenBank Acc. No. U17900, January 12, 1999.
	DL	GenBank Acc. No. U50388, October 31, 1996.
	DM	GenBank Acc. No. U50389, October 31, 1996.
	DN	GenBank Acc. No. U68544, September 18, 1996.
	DO	GenBank Acc. No. U70314, February 11, 1998.
	DP	GenBank Acc. No. U89987, October 4, 2000.
	DQ	GenBank Acc. No. U89988, October 4, 2000.
	DR	GenBank Acc. No. U89989, October 4, 2000.
↓	DS	GenBank Acc. No. X62123, June 8, 1994.
AC	DT	GenBank Acc. No. Z82214, December 12, 1999.

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Anne K. Chakrabarti

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
EB				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	EC	Giraud et al., "Expression of Human ANT2 Gene in Highly Proliferative Cells: GRBOX, a New Transcriptional Element, Is Involved in the Regulation of Glycolytic ATP Import into Mitochondria," <i>J. Mol. Biol.</i> 281:409-418, 1998
	ED	Green and Reed, "Mitochondria and Apoptosis," <i>Science</i> 281:1309-1312, August 28, 1998
	EE	Griffin et al., "Specific Covalent Labeling of Recombinant Protein Molecules Inside Live Cells," <i>Science</i> 281:269-272, 1998.
	EF	Guzman et al., "Tight Regulation, Modulation, and High-Level Expression by Vectors Containing the Arabinose P _{BAD} Promotor," <i>J. of Bacteriology</i> 177(14):4121-4130, 1995.
	EG	Haendler et al., "Complementary DNA for human T-cell cyclophilin," <i>The EMBO J.</i> 6(4):947-950, 1987.
	EH	Haldimann et al., "Use of New Methods for Construction of Tightly Regulated Arabinose and Rhamnose Promoter Fusions in Studies of the <i>Escherichia coli</i> Phosphate Regulon," <i>J. of Bacteriology</i> 180(5):1277-1286, 1998.
	EI	Halestrap et al., "Cyclosporin A Binding to Mitochondrial Cyclophilin Inhibits the Permeability Transition Pore and Protects Hearts from Ischaemia/Reperfusion Injury," <i>Molecular and Cellular Biochemistry</i> 174:167-172, 1997.
	EJ	Halestrap et al., "Elucidating the Molecular Mechanism of the Permeability Transition Pore and its Role in Reperfusion Injury of the Heart," <i>Biochimica et. Biophysica Acta</i> 1366:79-94, 1998.
	EK	Halestrap et al., "Mitochondrial Calcium Handling and Oxidative Stress," <i>Biochemical Society Transactions</i> 21(2):353-358, 1993.
	EL	Holloway and Bram, "Co-localization of Calcium-Modulating Cyclophilin Ligand with Intracellular Calcium Pools," <i>The J. of Biological Chemistry</i> 273(26):16346-16350, 1998.
✓	EM	Hunter and Haworth, "The Ca ²⁺ -Induced Membrane Transition in Mitochondria: The Protective Mechanisms," <i>Archives of Biochemistry and Biophysics</i> 195(2):453-459, 1979.
AC	EN	Jäschke et al., "Human T Cell Cyclophilin 18 Binds to Thiol-Specific Antioxidant Protein Aop1 and Stimulates its Activity," <i>J. Mol. Biol.</i> 277:763-769, 1998.

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	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION		
FB						YES	NO	
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
AC	FC	Jürgensmeier et al., "Bax Directly Induces Release of Cytochrome c From Isolated Mitochondria," <i>Proc. Natl. Acad. Sci.</i> 95:4997-5002, 1998.						
	FD	Kamo et al., "Membrane Potential of Mitochondria Measured with an Electrode Sensitive to Tetraphenyl Phosphonium and Relationship Between Proton Electrochemical Potential and Phosphorylation Potential in Steady State," <i>J. Membrane Biol.</i> 49:105-121, 1979.						
	FE	Kendall and Badminton, " <i>Aequorea Victoria</i> Bioluminescence Moves into an Exciting New Era," <i>Biootechnology</i> 16:216-224, 1998.						
	FF	Klingenberg et al., "Isolation of the ADP, ATP Carrier as the Carboxyatractylate Protein Complex from Mitochondria," <i>Biochimica et Biophysica Acta</i> 503:193-210, 1978.						
	FG	Korfron et al., "Determination of Kinetic Constants for Peptidyl Prolyl Cis-Trans Isomerases by an Improved Spectrophotometric Assay," <i>Biochemistry</i> 30:6127-6134, 1991.						
	FH	Kroemer et al., "The Mitochondrial Death/Life Regulator in Apoptosis and Necrosis," <i>Annu. Rev. Physiol.</i> 60:619-642, 1998.						
	FI	Ku et al., "The Human Fibroblast Adenine Nucleotide Translocator Gene: Molecular Cloning and Sequence," <i>The J. of Biological Chemistry</i> 265(27):16060-16063, 1990.						
	FJ	Li et al., "A Human Muscle Adenine Nucleotide Translocator Gene Has Four Exons, is Located on Chromosome 4, and is Differentially Expressed," <i>The J. of Biological Chemistry</i> 264(24):13998-14004, 1989.						
	FK	Lutz and Bujard, "Independent and Tight Regulation of Transcriptional Units in <i>Escherichia coli</i> Via the LacR/O, the TetR/O and AraC/I ₁ -I ₂ Regulatory Elements," <i>Nucleic Acids Research</i> 25(6):1203-1210, 1997.						
✓	FL	Mahajan et al., "Bcl-2 and Bax Interactions in Mitochondria Probed with Green Fluorescent Protein and Fluorescence Resonance Energy Transfer," <i>Nature Biotechnology</i> 16:547-552, 1998.						
AC	FM	Makrides, "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ," <i>Microbiological Reviews</i> 60(3):512-538, 1996.						
EXAMINER <i>Anuradha Chakrabarti</i>			DATE CONSIDERED <i>1/9/02</i>					
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GB				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	GC	Mancini et al., "Flow Cytometric Measurement of Mitochondrial Mass and Function: A Novel Method for Assessing Chemosensitivity," <i>Ann. Surg. Oncol.</i> 5(3):287-295, 1998.
	GD	Mancini et al., "Mitochondrial Proliferation and Paradoxical Membrane Depolarization During Terminal Differentiation and Apoptosis in a Human Colon Carcinoma Cell Line," <i>The J. of Cell Biology</i> 138(2):449-469, 1997.
	GE	Marzo et al., "The Permeability Transition Pore Complex: A Target for Apoptosis Regulation by Caspases and Bcl-2-Related Proteins," <i>J. Exp. Med.</i> 187(8):1261-1271, 1998.
	GF	Mayer, "A New Set of Useful Cloning and Expression Vectors Derived From pBlueScript," <i>Gene</i> 163:41-46, 1995.
	GG	Murphy and Bredesen, <i>Mitochondria & Free Radicals in Neurodegenerative Diseases</i> , Wiley-Liss, New York, Chapter 8, "Mitochondria, Reactive Oxygen Species, and Apoptosis," pp. 159-186
	GH	Neckelmann et al., "cDNA Sequence of a Human Skeletal Muscle ADP/ATP Translocator: Lack of a Leader Peptide, Divergence from a Fibroblast Translocator cDNA, and Coevolution with Mitochondrial DNA Genes," <i>Proc. Natl. Acad. Sci. USA</i> 84:7580-7584, 1987.
	GI	Nicolli et al., "Interactions of Cyclophilin with the Mitochondrial Inner Membrane and Regulations of the Permeability Transition Pore, a Cyclosporin A-Sensitive Channel," <i>The Journal of Biological Chemistry</i> 271(4):2185-2192, 1996.
	GJ	Petit et al., "Disruption of the Outer Mitochondrial Membrane as a Result of Large Amplitude Swelling: The Impact of Irreversible Permeability Transition," <i>FEBS Letters</i> 426:111-116, 1998.
	GK	Porter and Brand, "Causes of Differences in Respiration Rate of Hepatocytes from Mammals of Different Body Mass," <i>American J. of Physiology: Regulatory, Integrative and Comparative Physiology</i> 38(5):R1213-R1224, 1995.
VC	GL	Price et al., "Human Cyclophilin B: A Second Cyclophilin Gene Encodes a Peptidyl-Prolyl Isomerase with a Signal Sequence," <i>Proc. Natl. Acad. Sci. USA</i> 88:1903-1907, 1991.

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	HB					
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
<i>AC</i>	HC	Ratajczak et al., "The Cyclophilin Component of the Unactivated Estrogen Receptor Contains a Tetra peptide Repeat Domain and Shares Identity with p59 (FKBP59)," <i>The J. of Biological Chemistry</i> 268(18):13187-13192, 1993.				
	HD	Schwerzmann et al., "Molecular Architecture of the Inner Membrane of Mitochondria from Rat Liver: A Combined Biochemical and Stereological Study," <i>The J. of Cell Biology</i> 102(1):97-103, 1986.				
	HE	Shinozaki et al., "Isolation and Characterization of cDNA Clones and a Genomic Clone Encoding Rat Mitochondrial Adenine Nucleotide Translocator," <i>Biochimica et Biophysica Acta</i> 1152:192-196, 1993.				
	HF	Stamnes et al., "The Cyclophilin Homolog ninaA is a Tissue-Specific Integral Membrane Protein Required for the Proper Synthesis of a Subset of Drosophila Rhodopsins," <i>Cell</i> 65:219-227, 1991.				
	HG	Stepien et al., "Differential Expression of Adenine Nucleotide Translocator Isoforms in Mammalian Tissues and During Muscle Cell Differentiation," <i>The J. of Biological Chemistry</i> 267(21):14592-14597, 1992.				
	HH	Sterling, "Direct Thyroid Hormone Activation of Mitochondria: The Role of Adenine Nucleotide Translocase," <i>Endocrinology</i> 119(1):292-295, 1986.				
	HI	Streicher-Scott et al., "Use of Carboxyatractylate and Tight-Binding Inhibitor Theory to Determine the Concentration of Functional Mitochondrial Adenine Nucleotide Translocators in a Reconstituted System," <i>Analytical Biochemistry</i> 210(1):69-76, 1993.				
	HJ	Suzin et al., "Mitochondria as Regulators of Apoptosis: Doubt No More," <i>Biochimica et Biophysica Acta</i> 1366:151-165, 1998.				
<i>AC</i>	HK	Swanson et al., "Cyclosporin-Mediated Inhibition of Bovine Calcineurin by Cyclophilins A and B," <i>Proc. Natl. Acad. Sci. USA</i> 89:3741-3745, 1992.				
<i>AC</i>	HL	Taylor et al., "Structures of Cyclophilin-Ligand Complexes," <i>Prog. Biophys. Molec. Biol.</i> 67(2/3):155-181, 1997.				
EXAMINER	<i>Anupkr. Chakrabarty</i>			DATE CONSIDERED	<i>1/9/02</i>	
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	ID				YES	NO	
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OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
Ac	IG	Vayssiére et al., "Participation of the Mitochondrial Genome in the Differentiation of Neuroblastoma Cells," <i>In Vitro Cell. Dev. Biol.</i> 28A:763-772, 1992.					
	IH	Wallace et al., <i>Mitochondria & Free Radicals in Neurodegenerative Diseases</i> , Wiley-Liss, New York, 1998, Chapter 13, "Mitochondrial Defects in Neurodegenerative Diseases and Aging," pp. 283-307					
	II	Walsh et al., "Cyclosporin A, the Cyclophilin Class of Peptidylprolyl Isomerasases, and Blockade of T Cell Signal Transduction," <i>The J. of Biological Chemistry</i> 267(19), 13115-13118, 1992.					
	IV	White and Reynolds, "Mitochondrial Depolarization in Glutamate-Stimulated Neurons: An Early Signal Specific to Excitotoxin Exposure," <i>The J. of Neuroscience</i> 16(18):5688-5697, 1996.					
	IK	Woodfield et al., "Direct Demonstration of a Specific Interaction Between Cyclophilin-D and the Adenine Nucleotide Translocase Confirms Their Role in the Mitochondrial Permeability Transition," <i>Biochem. J.</i> 336:287-290, 1998.					
	IL	Wu et al., "Nup358, a Cytoplasmically Exposed Nucleoporin with Peptide Repeats, Ran-GTP Binding Sites, Zinc Fingers, a Cyclophilin A Homologous Domain, and a Leucine-rich Region," <i>The J. of Biological Chemistry</i> 270(23):14209-14213, 1995.					
X	IM	Xu et al., "Detection of Programmed Cell Death Using Fluorescence Energy Transfer," <i>Nucleic Acids Research</i> 26(8):2034-2035, 1998.					
Ac	IN	Zoratti and Szabó, "The Mitochondrial Permeability Transition," <i>Biochimica et Biophysica Acta</i> 1241:139-176, 1995.					
EXAMINER	<i>Arun Kr. Chakrabarti</i>				DATE CONSIDERED	<i>1/9/02</i>	
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).							

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INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO.
660088.433C1APPLICATION NO.
09/709,785APPLICANTS
Anne N. Murphy et al.FILING DATE
November 3, 2000 GROUP ART UNIT
1645

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AC	AA 5,773,225	06/30/98	Luban et al.	435	7.8	
	AB 6,140,067	10/31/00	Anderson et al.	435	26	
AC	6,150,415	11/21/00	Hammock et al.	514	588	02/18/99
AC	AD 6,183,948 B1	02/06/01	Marban et al.	435	4	04/15/98
AC	AE 6,211,440 B1	04/03/01	Briggs et al.	800	301	01/14/99
	AF					
	AG					
	AH					
	AI					
	AJ					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
				YES NO
AC	WO 00/26370	05/11/00	WIPO	—
AL				
AM				
AN				
AO				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	AP	Saito et al., "Expression of a Gene for Cyclophilin Which Contains an Amino-Terminal Endoplasmic Reticulum-Targeting Signal," <i>Plant Cell Physiol.</i> 40(1):77-87, 1999.
	AQ	
	AR	

EXAMINER

Annu kr. chakrabarti

DATE CONSIDERED

11/6/02

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